

Appl. No. 10/605,271
Amdt. dated November 26, 2004
Reply to Office action of September 30, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 5 1 (currently amended): A method of processing color image data for printing on a color
ink jet printer, the method comprising:
reading color image data from a ~~continuous-tone~~ source image, the ~~continuous-tone~~
source image containing color image data of at least a first color area and a
second color area;
10 ~~calculating a first density of pixels of the first color, calculating a second density of~~
~~pixels of the second color, and comparing the first density to the second~~
~~density;~~
identifying a border region between the first color area and the second color area
~~only if the first density and the second density match predetermined criteria~~
15 ~~which necessitates altering pixels along the border;~~
performing a pixel altering function to alter pixels of the ~~continuous-tone~~ source
image along the border region between the first color area and the second color
area;
converting the ~~continuous-tone~~ source image into a plurality of halftone images after
20 performing the pixel altering function; and
printing the halftone images using ink of the first and second colors according to the
first and second color areas.
- 25 2 (original): The method of claim 1 wherein the first color ink and the second color ink
are two different types of ink.
- 3 (original): The method of claim 2 wherein the first color ink is a pigment-based ink and

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the second color ink is a dye-based ink.

4 (original): The method of claim 1 wherein the first color is black and the second color is
5 selected from a group consisting of cyan, magenta, yellow, light cyan, light magenta,
orange, and green.

5 (original): The method of claim 4 wherein the first color ink is a pigment-based ink and
the second color ink is a dye-based ink.
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6 (original): The method of claim 1 wherein the pixel altering function comprises
replacing pixels of the first color with pixels of another color.

7 (original): The method of claim 1 wherein the pixel altering function comprises
15 replacing pixels of the second color with pixels of another color.

8 (original): The method of claim 1 wherein the pixel altering function comprises
reducing a color saturation value for pixels of the first color.

20 9 (original): The method of claim 1 wherein the pixel altering function comprises
reducing a color saturation value for pixels of the second color.

10-11 (cancelled).

25 12 (currently amended): The method of ~~claim 11~~ claim 1 wherein if the first density is
higher than the second density, the pixels along the border region are altered
according to a comparison result between the first density and a first threshold level.

13 (currently amended): The method of ~~claim 11~~ claim 1 wherein if the second density is

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higher than the first density, the pixels along the border region are altered according to a comparison result between the first density and a second threshold level.

- 5 14 (new): A method of processing color image data for printing on a color ink jet printer, the method comprising:
- reading color image data from a continuous tone source image, the continuous tone source image containing color image data of at least a first color area and a second color area;
- 10 calculating a first density of pixels of the first color, calculating a second density of pixels of the second color, and comparing the first density to the second density;
- identifying a border region between the first color area and the second color area only if the first density and the second density match predetermined criteria
- 15 which necessitates altering pixels along the border;
- performing a pixel altering function to alter pixels of the continuous tone source image along the border region between the first color area and the second color area;
- converting the continuous tone source image into a plurality of halftone images after
- 20 performing the pixel altering function; and
- printing the halftone images using ink of the first and second colors according to the first and second color areas.
- 15 (new): The method of claim 14 wherein the first color ink and the second color ink are
- 25 two different types of ink.
- 16 (new): The method of claim 15 wherein the first color ink is a pigment-based ink and the second color ink is a dye-based ink.

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17 (new): The method of claim 14 wherein the first color is black and the second color is selected from a group consisting of cyan, magenta, yellow, light cyan, light magenta, orange, and green.

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18 (new): The method of claim 17 wherein the first color ink is a pigment-based ink and the second color ink is a dye-based ink.

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19 (new): The method of claim 14 wherein the pixel altering function comprises replacing pixels of the first color with pixels of another color.

20 (new): The method of claim 14 wherein the pixel altering function comprises replacing pixels of the second color with pixels of another color.

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21 (new): The method of claim 14 wherein the pixel altering function comprises reducing a color saturation value for pixels of the first color.

22 (new): The method of claim 14 wherein the pixel altering function comprises reducing a color saturation value for pixels of the second color.

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23 (new): The method of claim 14 wherein if the first density is higher than the second density, the pixels along the border region are altered according to a comparison result between the first density and a first threshold level.

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24 (new): The method of claim 14 wherein if the second density is higher than the first density, the pixels along the border region are altered according to a comparison result between the first density and a second threshold level.